SEQUENCE LISTING

<110>	REGEN Biotech, Inc.												
<120>	Use of a peptide that interacts with alpha v beta3 integrin of endothelial cell												
<130>	0P04-1024												
<150> <151>	KR 10-2003-0021065 2003-04-03												
<160>	27												
<170>	Kopatentin 1.71												
<210><211><211><212><213>	1 683 PRT Homo sapiens												
<400> Met Ala 1	1 Leu Phe Val Arg Leu Leu Ala Leu Ala Leu Ala Leu 5 10 15												
Gly Pro	Ala Ala Thr Leu Ala Gly Pro Ala Lys Ser Pro Tyr Gln Leu 20 25 30												
Val Leu	Gln His Ser Arg Leu Arg Gly Arg Gln His Gly Pro Asn Val 35 40 45												
Cys Ala 50	Val Gin Lys Val lie Gly Thr Asn Arg Lys Tyr Phe Thr Asn 55 60												
Cys Lys 65	Gin Trp Tyr Gin Arg Lys 11e Cys Gly Lys Ser Thr Val 11e 70 75 80												
Ser Tyr	Glu Cys Cys Pro Gly Tyr Glu Lys Val Pro Gly Glu Lys Gly 85 90 95												
Cys Pro	Ala Ala Leu Pro Leu Ser Asn Leu Tyr Glu Thr Leu Gly Val 100 105 110												
Val Gly	Ser Thr Thr Thr Gln Leu Tyr Thr Asp Arg Thr Glu Lys Leu 115 120 125												
Arg Pro 130	Glu Met Glu Gly Pro Gly Ser Phe Thr lle Phe Ala Pro Ser 135 140												
Asn Glu 145	Ala Trp Ala Ser Leu Pro Ala Giu Val Leu Asp Ser Leu Val 150 155 160												

Ser	Asn	Val	Asn	11e 165	Glu	Leu	Leu	Asn	A1a 170	Leu	Arg	Tyr	His	Met 175	Val
Glv	Ara	Ara	Val	Leu	Thr	Asp	Glu	Leu	Lys	His	Gly	Met	Thr	Leu	Thr

- Gly Arg Arg Val Leu ihr Asp Glu Leu Lys His Gly Met ihr Leu ihr 180 185 190
- Ser Met Tyr Gln Asn Ser Asn IIe Gln IIe His His Tyr Pro Asn Gly 195 200 205
- lle Val Thr Val Asn Cys Ala Arg Leu Leu Lys Ala Asp His His Ala 210 215 220
- Thr Asn Gly Val Val His Leu lle Asp Lys Val lle Ser Thr lle Thr 225 230 235 240
- Asn Asn IIe Gin Gin IIe IIe Glu IIe Glu Asp Thr Phe Glu Thr Leu 245 250 255
- Arg Ala Ala Val Ala Ala Ser Gly Leu Asn Thr Met Leu Glu Gly Asn 260 265 270
- Gly Gln Tyr Thr Leu Leu Ala Pro Thr Asn Glu Ala Phe Glu Lys lle 275 280 285
- Pro Ser Glu Thr Leu Asn Arg 11e Leu Gly Asp Pro Glu Ala Leu Arg 290 295 300
- Asp Leu Leu Asn Asn His 11e Leu Lys Ser Ala Met Cys Ala Glu Ala 305 310 315 320
- lle Val Ala Gly Leu Ser Val Glu Thr Leu Glu Gly Thr Thr Leu Glu 325 330 335
- Val Gly Cys Ser Gly Asp Met Leu Thr lie Asn Gly Lys Ala lie lie 340 345 350
- Ser Asn Lys Asp lle Leu Ala Thr Asn Gly Val lle His Tyr lle Asp 355 360 365
- Glu Leu Leu IIe Pro Asp Ser Ala Lys Thr Leu Phe Glu Leu Ala Ala 370 375 380
- Glu Ser Asp Val Ser Thr Ala IIe Asp Leu Phe Arg Gln Ala Gly Leu 385 390 395 400
- Gly Asn His Leu Ser Gly Ser Glu Arg Leu Thr Leu Leu Ala Pro Leu 405 410 415
- Asn Ser Val Phe Lys Asp Gly Thr Pro Pro 11e Asp Ala His Thr Arg 420 425 430

Asn Leu Leu Arg Asn His 11e 11e Lys Asp Gln Leu Ala Ser Lys Tyr Leu Tyr His Gly Gln Thr Leu Glu Thr Leu Gly Gly Lys Lys Leu Arg Val Phe Val Tyr Arg Asn Ser Leu Cys IIe Glu Asn Ser Cys IIe Ala Ala His Asp Lys Arg Gly Arg Tyr Gly Thr Leu Phe Thr Met Asp Arg Val Leu Thr Pro Pro Met Gly Thr Val Met Asp Val Leu Lys Gly Asp 505 Asn Arg Phe Ser Met Leu Val Ala Ala lle Gln Ser Ala Gly Leu Thr 520 Glu Thr Leu Asn Arg Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn 540 535 Glu Ala Phe Arg Ala Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu Ala Asn lle Leu Lys Tyr His lle Gly Asp Glu 570 ile Leu Val Ser Gly Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu 585 Gin Gly Asp Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val 600 Asn Lys Glu Pro Val Ala Glu Pro Asp lle Met Ala Thr Asn Gly Val 620 610 615 Val His Val lie Thr Asn Val Leu Gin Pro Pro Ala Asn Arg Pro Gin Glu Arg Gly Asp Glu Leu Ala Asp Ser Ala Leu Glu lle Phe Lys Gln 650 Ala Ser Ala Phe Ser Arg Ala Ser Gin Arg Ser Val Arg Leu Ala Pro 665 670 660 Val Tyr Gln Lys Leu Leu Glu Arg Met Lys His 680 <210> <211> 103

<212>

PRT

<213> Homo sapiens

<400> 2

Gly Pro Gly Ser Phe Thr lle Phe Ala Pro Ser Asn Glu Ala Trp Ala 1 5 10 15

Ser Leu Pro Ala Glu Val Leu Asp Ser Leu Val Ser Asn Val Asn Ile 20 25 30

Glu Leu Leu Asn Ala Leu Arg Tyr His Met Val Gly Arg Arg Val Leu 35 40 45

Thr Asp Glu Leu Lys His Gly Met Thr Leu Thr Ser Met Tyr Gln Asn 50 55 60

Ser Asn IIe GIn IIe His His Tyr Pro Asn Gly IIe Val Thr Val Asn 65 70 75 80

Cys Ala Arg Leu Leu Lys Ala Asp His His Ala Thr Asn Gly Val Val 85 90 95

His Leu IIe Asp Lys Val IIe 100

<210> 3

<211> 131

<212> PRT

<213> Homo sapiens

<400> 3

Asn IIe Gin Gin IIe IIe Giu IIe Giu Asp Thr Phe Giu Thr Leu Arg 1 5 10 15

Ala Ala Val Ala Ala Ser Gly Leu Asn Thr Met Leu Glu Gly Asn Gly 20 25 30

Gin Tyr Thr Leu Leu Ala Pro Thr Asn Glu Ala Phe Glu Lys Ile Pro 35 40 45

Ser Glu Thr Leu Asn Arg IIe Leu Gly Asp Pro Glu Ala Leu Arg Asp 50 55 60

Leu Leu Asn Asn His IIe Leu Lys Ser Ala Met Cys Ala Glu Ala IIe 65 70 75 80

Val Ala Gly Leu Ser Val Glu Thr Leu Glu Gly Thr Thr Leu Glu Val 85 90 95

Gly Cys Ser Gly Asp Met Leu Thr lie Asn Gly Lys Ala lie lie Ser 100 105 110

Asn Lys Asp IIe Leu Ala Thr Asn Gly Val IIe His Tyr IIe Asp Glu 120 Leu Leu Ile 130 <210> 4 <211> 129 <212> PRT <213> Homo sapiens <400> Pro Asp Ser Ala Lys Thr Leu Phe Glu Leu Ala Ala Glu Ser Asp Val Ser Thr Ala IIe Asp Leu Phe Arg Gln Ala Gly Leu Gly Asn His Leu 20 Ser Gly Ser Glu Arg Leu Thr Leu Leu Ala Pro Leu Asn Ser Val Phe Lys Asp Gly Thr Pro Pro Ile Asp Ala His Thr Arg Asn Leu Leu Arg Asn His IIe IIe Lys Asp Gln Leu Ala Ser Lys Tyr Leu Tyr His Gly Gin Thr Leu Giu Thr Leu Gly Gly Lys Lys Leu Arg Vai Phe Val Tyr Arg Asn Ser Leu Cys Ile Glu Asn Ser Cys Ile Ala Ala His Asp Lys 100 105 Arg Gly Arg Tyr Gly Thr Leu Phe Thr Met Asp Arg Val Leu Thr Pro 120 Pro <210> 5 <211> 131 **<212>** PRT <213> Homo sapiens <400> Met Gly Thr Val Met Asp Val Leu Lys Gly Asp Asn Arg Phe Ser Met Leu Val Ala Ala IIe Gin Ser Ala Gly Leu Thr Glu Thr Leu Asn Arg

25

Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu Ala Phe Arg Ala 35 40 45

Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu 50 55 60

Ala Asn lle Leu Lys Tyr His lle Gly Asp Glu lle Leu Val Ser Gly 65 70 75 80

Gly lie Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp Lys Leu 85 90 95

Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu Pro Val 100 105 110

Ala Glu Pro Asp lle Met Ala Thr Asn Gly Val Val His Val lle Thr 115 120 125

Asn Val Leu 130

<210> 6

<211> 85

<212> PRT

<213> Homo sapiens

<400> 6

Arg Ala Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys
1 5 10 15

Glu Leu Ala Asn lle Leu Lys Tyr His lle Gly Asp Glu lle Leu Val

Ser Gly Gly 11e Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp 35 40 45

Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu 50 55 60

Pro Val Ala Glu Pro Asp IIe Met Ala Thr Asn Gly Val Val His Val 65 70 75 80

lle Thr Asn Val Leu

85

<210> 7

211> 119

<212> PRT
<213> Homo sapiens

<400> Met Gly Thr Val Met Asp Val Leu Lys Gly Asp Asn Arg Phe Ser Met Leu Val Ala Ala IIe Gin Ser Ala Gly Leu Thr Glu Thr Leu Asn Arg Glu Gly Vai Tyr Thr Val Phe Ala Pro Thr Asn Glu Ala Phe Arg Ala Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu 55 Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val Ser Gly Gly lle Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp Lys Leu Glu Vai Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu Pro Val Ala Glu Pro Asp lle Met Ala 115 <210> 8 <211> 113 <212> PRT <213> Homo sapiens <400> Met Gly Thr Val Met Asp Val Leu Lys Gly Asp Asn Arg Phe Ser Met 5 Leu Val Ala Ala IIe Gin Ser Ala Gly Leu Thr Glu Thr Leu Asn Arg Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu Ala Phe Arg Ala Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu 50 Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val Ser Gly Gly lie Gly Ala Leu Val Arg Leu Lys Ser Leu Gin Gly Asp Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu Pro Val

PCT/KR2004/000774 WO 2004/087193

100 105 110 Ala <210> 9 <211> 73 **<212>** PRT <213> Homo sapiens <400> Arg Ala Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val Ser Gly Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu 55 Pro Val Ala Glu Pro Asp lle Met Ala <210> 10 <211> 67 <212> PRT <213> Homo sapiens <400> Arg Ala Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val Ser Gly Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu 55 Pro Val Ala <210>

11

18

<211>

```
<212>
<213>
        Artificial Sequence
<220>
<223>
        D-IV-AA(18)
<400>
        11
Lys Glu Leu Ala Asn Ile Leu Lys Ala Ala Ile Gly Asp Glu Ile Leu
Val Ser
<210>
         12
<211>
         18
<212>
         PRT
<213>
         Artificial Sequence
<220>
<223>
         D-IV-L(18)
<400>
Lys Glu Ser Ala Asn Ser Ser Lys Tyr His IIe Gly Asp Glu IIe Leu
Val Ser
<210>
         13
<211>
         18
<212>
         PRT
<213>
         Artificial Sequence
<220>
<223>
         D-IV-R(18)
<400>
Lys Glu Leu Ala Asn Ile Leu Lys Tyr His Ser Gly Asp Glu Ser Ser
 1
                  5
Val Ser
<210>
         14
<211>
         18
<212>
         PRT
```

```
<213>
        Artificial Sequence
<220>
<223>
        D-IV-LYHR(18)
<400>
         14
Lys Glu Ser Ala Asn Ser Ser Lys Tyr His Ser Gly Asp Glu Ser Ser
                                      10
                  5
Val Ser
<210>
         15
<211>
         18
<212>
         PRT
<213>
         Artificial Sequence
<220>
<223>
         D-IV-LAA(18)
<400>
Lys Glu Ser Ala Asn Ser Ser Lys Ala Ala lle Gly Asp Glu lle Leu
Val Ser
<210>
         16
<211>
         18
<212>
         PRT
<213>
         Artificial Sequence
<220>
<223>
         D-IV-AAR(18)
<400>
Lys Glu Leu Ala Asn Ile Leu Lys Ala Ala Ser Gly Asp Glu Ser Ser
                                      10
                                                           15
Val Ser
<210>
         17
         29
<211>
         PRT
<212>
<213>
         Artificial Sequence
```

```
<220>
<223>
        D-IV-AA
<400>
        17
Gly Asp Ala Lys Glu Leu Ala Asn ile Leu Lys Ala Ala Ile Gly Asp
                  5
1
Glu lle Leu Val Ser Gly Gly lle Gly Ala Leu Val Arg
             20
<210>
         18
<211>
         29
<212>
        PRT
<213>
        Artificial Sequence
<220>
<223>
        D-1V-L
<400>
         18
Gly Asp Ala Lys Glu Ser Ala Asn Ser Ser Lys Tyr His lle Gly Asp
Glu ile Leu Val Ser Gly Gly ile Gly Ala Leu Val Arg
                                 25
<210>
         19
<211>
         29
<212>
         PRT
<213>
         Artificial Sequence
<220>
<223>
         0-1V-R
<400>
         19
Gly Asp Ala Lys Glu Leu Ala Asn Ile Leu Lys Tyr His Ser Gly Asp
Glu Ser Ser Val Ser Gly Gly 11e Gly Ala Leu Val Arg
             20
<210>
         20
<211>
         29
<212>
         PRT
<213>
         Artificial Sequence
<220>
```

```
<223>
        D-IV-LYHR
<400>
         20
Gly Asp Ala Lys Glu Ser Ala Asn Ser Ser Lys Tyr His Ser Gly Asp
Glu Ser Ser Val Ser Gly Gly Ile Gly Ala Leu Val Arg
<210>
         21
<211>
         29
<212>
         PRT
<213>
         Artificial Sequence
<220>
<223>
         D-IV-LAA
<400>
Gly Asp Ala Lys Glu Ser Ala Asn Ser Ser Lys Ala Ala lle Gly Asp
                                      10
Glu lle Leu Val Ser Gly Gly lle Gly Ala Leu Val Arg
<210>
         22
<211>
         29
<212>
         PRT
<213>
         Artificial Sequence
<220>
<223>
         D-IV-AAR
<400>
Gly Asp Ala Lys Glu Leu Ala Asn Ile Leu Lys Ala Ala Ser Gly Asp
Glu Ser Ser Val Ser Gly Gly Ile Gly Ala Leu Val Arg
 <210>
          23
          18
 <211>
 <212>
          PRT
 <213>
          Artificial Sequence
 <220>
 <223>
          D-1 YH18
```

```
<400>
lle Glu Leu Leu Asn Ala Leu Arg Tyr His Met Val Gly Arg Arg Val
Leu Thr
<210>
         24
<211>
         18
<212>
        PRT
<213>
        Artificial Sequence
<220>
<223>
         D-11 YH18
<400>
         24
Glu Ala Leu Arg Asp Leu Leu Asn Asn His He Leu Lys Ser Ala Met
                  5
                                      10
                                                          15
Cys Ala
<210>
         25
<211>
         18
<212>
         PRT
<213>
         Artificial Sequence
<220>
<223>
         D-III YH18
<400>
Asp Gln Leu Ala Ser Lys Tyr Leu Tyr His Gly Gln Thr Leu Glu Thr
                 5
                                      10
                                                          15
Leu Gly
<210>
         26
<211>
         18
<212>
         PRT
<213>
         Artificial Sequence
<220>
<223>
         D-IV YH18
```

```
<400>
        26
Lys Glu Leu Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu
Val Ser
<210>
        27
<211>
        18
<212>
        PRT
<213>
        Artificial Sequence
<220>
<223>
        YH18-con.
<400>
Lys Glu Leu Ala Asn Ile His Gly !le Lys Leu Tyr Asp Glu Ile Leu
                 5
                                    10
Val Ser
```